

# Vermont Primary Battery Stewardship Annual Report

REPORTING PERIOD: JANUARY – DECEMBER 2017

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**Prepared for:**

Vermont Agency of Natural Resources  
Department of Environmental Conservation  
Waste Management and Prevention Division  
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**call2recycle<sup>®</sup>**  
Leading the charge for recycling.™

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# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

**10 V.S.A. § 7585. ANNUAL REPORT; PLAN AUDIT - Annual report. On or before March 1, 2017, and annually thereafter, a producer or a primary battery stewardship organization shall submit a report to the Secretary that contains the following:**

**(1) the weight of primary batteries collected by the producer or the primary battery stewardship organization in the prior calendar year;**

In 2017, Call2Recycle, Inc. collected 81,381 pounds of primary batteries in Vermont. This was an increase of 27% over the total amount of primary batteries collected in 2016. Please find the 2016 & 2017 primary battery recycling data:

Primary Battery Recycling Collections (lbs.)				
Material Type	2016	2017	Change in Lbs.	% Change
Alkaline	62,372	79,257	16,885	27%
Lithium Primary	1,989	2,123	134	7%
Mercury	5	1	-4	-80%
<b>Totals</b>	<b>64,366</b>	<b>81,381</b>	<b>17,015</b>	<b>26%</b>

**(2) the estimated percentage, by weight, of rechargeable batteries collected by the producer or the primary battery stewardship organization in the prior calendar year;**

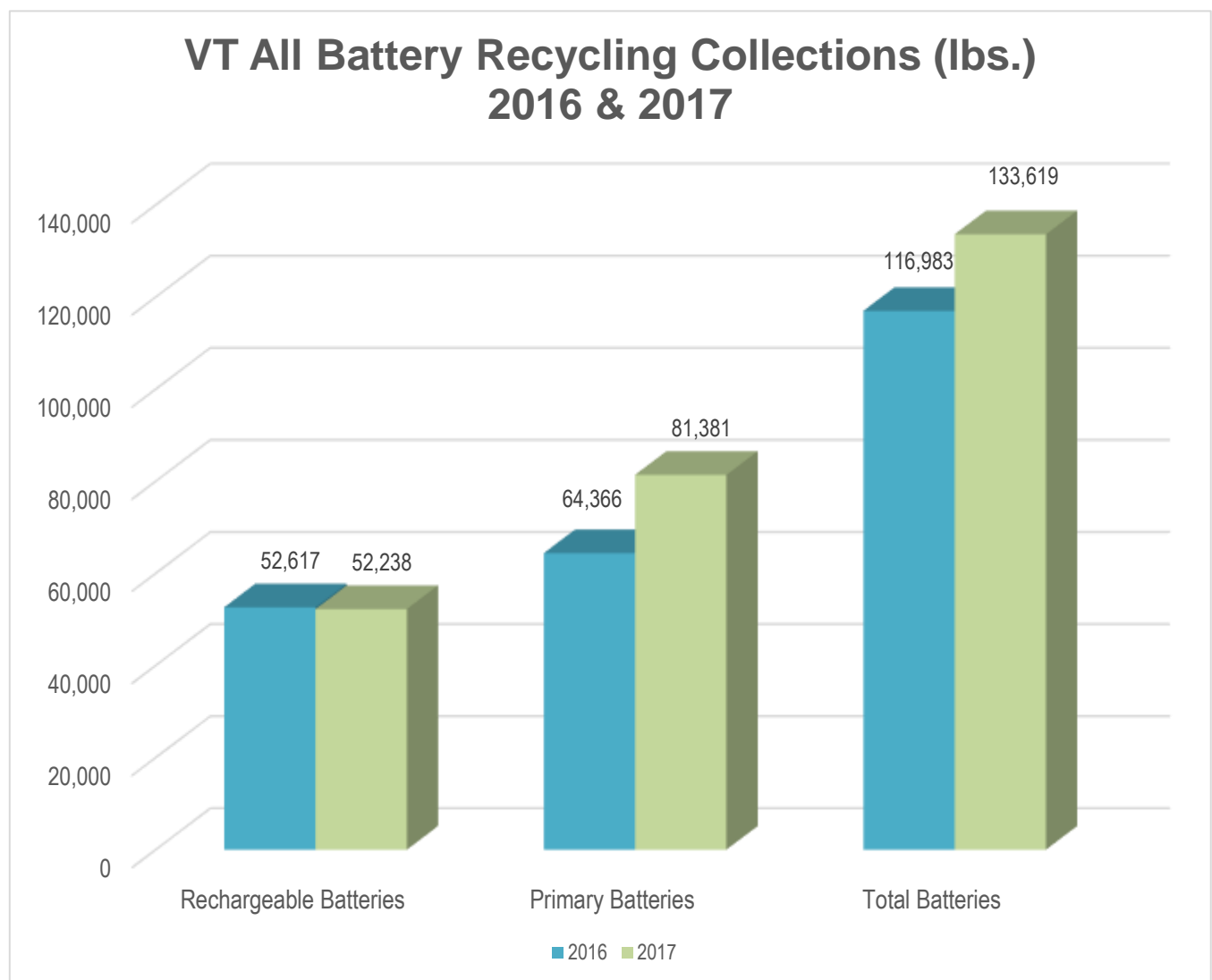
In 2017, Call2Recycle, Inc. collected 52,238 pounds of rechargeable batteries in Vermont, which makes up 39% of the total amount of all batteries collected in 2017. Below please find the rechargeable battery recycling data for both 2016 & 2017:

Rechargeable Battery Collections (lbs.)				
Material Type	2016	2017	Change in Lbs.	% Change
Small Sealed Lead Acid (SSLA/Pb)	19,332	18,962	-370	-2%
Nickel Cadmium (Ni-Cd)	18,776	18,910	134	1%
Lithium Ion (Li-Ion)	6,428	9,327	2,899	45%
Nickel Metal-Hydride (Ni-MH)	8,081	5,039	-3,042	-38%
<b>Totals</b>	<b>52,617</b>	<b>52,238</b>	<b>-379</b>	<b>&gt;1%</b>
<b>% Rechargeable of Total</b>	<b>45%</b>	<b>39%</b>	<b>N/A</b>	<b>-6%</b>

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In 2017, Call2Recycle, Inc. collected 133,619 pounds of primary and rechargeable batteries (combined) in Vermont, this is a 14% increase over 2016. Below please find the combined battery recycling data for both 2016 & 2017:

Combined Battery Recycling Collections (lbs.)				
Material Type	2016	2017	Change in Lbs.	% Change
Primary Batteries	64,366	81,381	17,015	26%
Rechargeable Batteries	52,617	52,238	-379	>1%
<b>Total Batteries</b>	<b>116,983</b>	<b>133,619</b>	<b>16,636</b>	<b>14%</b>



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## (3) The percentage of primary batteries collected in the prior calendar year that are from producers who are not participating in any approved stewardship plan, based on periodic sorting of primary batteries by the reporting producer;

Measuring the percent of primary battery brands collected from non-participating producers can be complex. To develop a clearer view of batteries available for collection in the state that are not participating in the program, Call2Recycle, Inc. expanded its review of non-participating producers to include estimating the number batteries being sold into the state that are excluded under the law. This is a more important consideration because once a battery is collected for recycling, Call2Recycle, Inc. incurs a greater unfunded cost than from managing brands that are simply ignoring the requirements under the law.

Call2Recycle measured two elements of “non-participating”: First, it audited approximately 6,000 pounds of collected primary batteries to identify brands that have been sold in the state that are not participating in the program (or have been exempted by the state) please see the results below:

“Covered” Brands	52	95%
Non-Participating Brands	223	4.5%
Exempt Brands	6	.5%

And second, it surveyed the major primary battery manufacturers to estimate the total amount of batteries they sell that are not currently covered under the law. Excluded batteries include ones sold:

- in or with product,
- with the sole intent of being used by, in or with a medical device,
- as “industrial” batteries, but still within the weight requirements under the law, and
- through business to business.

Based on these two data sets, Call2Recycle estimates that 20% of the total annual primary battery sales into Vermont (approximately 130,000 pounds) that would otherwise be participating in the program are *not* currently covered under the law. We believe this to be a conservative estimate as the batteries from these companies are less likely to be sold in or with products than other brands.

Below please find the combined results of this research with the battery audits performed throughout the year to provide estimates of participating, non-participating and exempt brands:

Vermont Battery Audit	Number of Brands	% of Overall Weight
Participating Brands	52	75% - 95%
Non-Participating Brands**	223	4% - 24%
Exempt Brands*	6	1%

\*Exempt brands include batteries from producers that were give exempt status from the Agency as wither deminimis or agreed to stop selling their batteries in the State.

\*\* “Non-participating” can be either due to an exclusion under the law or simply brands that ignore their legal requirement to participate.

Also, Call2Recycle, Inc. engaged Kelleher Environmental to carry out a research project to review different policy options to address the end of life management of consumer batteries included in products such as WEEE (waste electrical and electronic equipment) and to determine the potential implications, particularly environmental impact, of different policy approaches. The final report will be released during the first quarter of 2018 - Call2Recycle, Inc. will share the findings directly with Agency representatives.

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**(4) the collection rate achieved in the prior calendar year under the primary battery stewardship plan, including a report of the estimate total sales data by weight for primary batteries sold in the State for the previous three calendar years;**

Thirty-two (32) obligated stewards selling covered primary batteries into the State of Vermont participated in Call2Recycle, Inc.'s approved primary battery stewardship plan.

Below please find the estimated total weight of covered primary batteries as defined under the law, sold by producers participating in Call2Recycle, Inc.'s plan, total weight collected of all primary batteries (participating, non-participating and exempt) and the 2017 achieved collection rate for producers participating in Call2Recycle, Inc.'s plan:

Primary Battery Collection Rate	
<b>Total Weight of Covered Batteries Sold into VT by Producers Participating in Call2Recycle, Inc. (3 Year Average)*</b>	645,217
<b>Total Weight of All Primary Batteries Collected</b>	81,381
<b>Collection Rate Proposed for 2017 in Call2Recycle's Plan</b>	12%
<b>Call2Recycle, Inc. Collection Rate Achieved In 2017 on behalf of Participating Producers</b>	13%

\*The total weight of batteries sold into Vermont is based off national sales data – this number is a very rough estimate.

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## (5) the locations for all collection points set up by the primary battery producers covered by the primary battery stewardship plan and contact information for each location;

Call2Recycle, Inc. provides an easy, responsible and free solution for consumer battery drop-off at retailers, municipalities, and solid waste management facilities. Below please find the list of these sites and contact information for each site:

Participating Collection Site	Address	City / Town	Contact	Main Phone
Town of Alburgh	1 N Main Street	Alburgh	Amy Mashtare	(802) 796-3468
Greater Upper Valley Solid Waste District	38 Ascutney Park Road	Ascutney	Ham Gillett	(802) 296-3688
NWSWD - Bakersfield	380 Main St Route 108	Bakersfield	Marcus Berry	(802) 524-5986
Aldrich Public Library	6 Washington Street	Barre	Lee Bonamico	(802) 477-1241
ReSOURCE Household Goods	30 Granite Street	Barre	Bob Kershaw	(802) 477-7800
CVSWMD - ARCC	540 North Main Street	Barre	Mike Peabody	(802) 476-1900
Kinney Drugs, Inc.	800 Us Route 302 -Berlin	Barre	Store Manager	(802) 476-6659
Staples	168 Ames Drive	Barre	Store Manager	(802) 476-2788
Nelson's Ace Hardware	188 North Main Street, Suite 4	Barre	Donna Davis	(802) 476-5700
Bobs Camera and Video	86 North Main Street	Barre	Store Manager	(802) 476-4342
J & H Do It Best	20 The Square	Bellows Falls	Heather Haskins	(802) 463-4140
Vermont Computer Co	708 Main Street	Bennington	Andrew Chapman	(802) 442-8872
Energizer Mfg.	401 Gage Street	Bennington	Randy Winnie	(802) 442-1469
EZ Way Rental Center	115 County Street	Bennington	Mike Thompson	(802) 442-8393
Southwestern Vermont Medical Center	100 Hospital Drive	Bennington	Christopher Dargie	(802) 442-6361
K-Mart	109 Bennington Square	Bennington	Store Manager	(802) 442-6305
Town of Bennington	205 South Street	Bennington	Larry McLeod	(802) 442-1037
The Home Depot	121 N Bennington Road	Bennington	Operations ASM	(802) 447-9997
Town of Bennington - Rescue Squad	120 McKinley Street	Bennington	William Hathway	(802) 442-5817
Walmart - WM	210 Northside Drive, Suite 1	Bennington	Claims Dept.	(802) 447-1614
Benson Transfer Station	503 Glenn Road	Benson	Michael Slattery	(802) 342-5701
Walmart - WM	282 Berlin Mall Road	Berlin	Claims Dept.	(802) 229-7792
Central VT Medical Center	130 Fisher Road, Unit 1	Berlin	Charlie Cerutti	(802) 371-4477
ACE Hardware	427 Route 4A West	Bomoseen	Tracey	(802) 468-5676
NEKWMD Corinth Recycling Center	2398 Goose Green Road	Bradford	Marcus Berry	(802) 626-3532
Rite Aid	1 Union Street	Brandon	Barbara Pelliccione	(802) 247-8050
NORTHEAST RECYCLING COUNCIL	139 Main Street, Suite 401	Brattleboro	Manager	(802) 254-3636
Staples	768 Putney Road	Brattleboro	Store Manager	(802) 257-5596

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Participating Collection Site	Address	City / Town	Contact	Main Phone
Fireside True Value	895 Putney Road	Brattleboro	Kevin Martell	(802) 254-4927
BRW ELECTRONICS	972 Putney Road, Unit 9	Brattleboro	Store Manager	(802) 257-5229
Leader Home Centers	225 Marlboro Road	Brattleboro	Store Manager	(802) 257-7373
Windham SWMD	327 Old Ferry Road	Brattleboro	Phil Baker	(802) 257-0272
Brown & Roberts Ace Hardware	182 Main Street	Brattleboro	Ed Baker	(802) 257-4566
Broughton True Value Hardware	3437 VT Route 22A	Bridgeport	Store Manager	(802) 758-2477
VT Dept. of Health	108 Cherry Street	Burlington	Marielle Strong	(802) 865-7742
Integrated Arts Academy	6 Archibald Street	Burlington	Shannon Walters	(802) 864-2229
ReSOURCE Household Goods	266 Pine Street	Burlington	Mia / Store Manager	(802) 860-4891
Marketing Partners, Inc.	176 Battery Street	Burlington	Pat Heffernan	(802) 864-6710
University of VT Medical Center	111 Colchester Avenue	Burlington	Marcel Fortin	(802) 847-0270
University of Vermont	667 Spear Street	Burlington	Brian Medor	(802) 656-5408
Burlington Drop-Off Center	339 Pine Street	Burlington	Facility Manager	(802) 863-3827
Cambridge Transfer Station	Route 104	Cambridge	Facility Manager	(802) 891-4050
Town of Canaan	318 Christian Hill Road	Canaan	Gregory Noyes	(802) 266-3370
Cavendish Transfer Station - Town Offices	37 High Street	Cavendish	Bruce McEnaney	(802) 226-7291
Town of Cavendish	354 Route 131	Cavendish	Mary O'Brien	(802) 226-7743
Solid Waste Alliance Communities	181 Business Route 4	Center Rutland	Joseph Zingale	(802) 342-5701
Chelsea Transfer Station	301 VT - 110	Chelsea	Snook Downing	(802) 625-2023
Chittenden Transfer Station	260 Chittenden Road	Chittenden	Facility Manager	(802) 342-5701
WPTZ/WNNE-TV	553 Roosevelt Highway Suite 100	Colchester	Luke Sherman	(603) 558-3268
Shred-Ex, LLC	529 Jasper Mine Road	Colchester	Kate Rugg	(802) 863-0404
State of VT Military Dept, VT Army Guard	789 National Guard Road	Colchester	LeeAnn Banks	(802) 338-3327
NEKWMD Concord Recycling Center	110 Brook Road	Concord	Marcus Berry	(802) 626-3532
Craftsbury Transfer Station	Creek Road	Craftsbury	Facility Manager	(802) 496-6394
Town of Danby	130 Brook Road	Danby	Janice Arnold	(802) 293-5136
NEKWMD Danville Recycling Center	279 Highland Avenue	Danville	Marcus Berry	(802) 626-3532
Walmart - SUP	115 Seymour Drive	Derby	Claims Department	(802) 624-8012
Poulin Lumber Inc	3639 US Route 5	Derby	Store Manager	(802) 766-4971
NEKWMD Derby Recycling Center	3427 US Route 5	Derby	Marcus Berry	(802) 626-3532
NEKWMD Peacham Recycling Center	Town Highway #2	East Peacham	Marcus Berry	(802) 626-3532
Washington Electric Cooperative	230 Fassett Road	East Montpelier	Mike Gray	(802) 223-5245



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Participating Collection Site	Address	City / Town	Contact	Main Phone
NEKWMD - Ryegate Recycling Center	269 School Street	East Ryegate	Marcus Berry	(802) 626-3532
Eden Transfer Station	VT Route 100	Eden	James Gonyaw	(802) 730-4952
Greens Ace Hardware	6 Railroad Street	Enosburg Falls	Store Manager	(802) 933-7500
Albert D. Lawton Intermediate	104 Maple Street	Essex Junction	Ryan Dudley	(802) 878-1388
Essex Middle School	60 Founders Road	Essex Junction	Kevin Briggs	(802) 879-7173
Lowe's	10 Susie Wilson Road	Essex Junction	Sandy Hunton	(802) 662-9131
Burlington Tool Repair	3 Kellogg Road	Essex Junction	Desiree	(802) 872-0051
Essex Equipment	26 Kellogg Road	Essex Junction	Ken Heil	(802) 879-0767
Essex Drop-Off Center	218 Colchester Road	Essex Junction	Facility Manager	(802) 878-3152
Rite Aid	62 Washington Street Extension	Fair Haven	James Pelliccione	(802) 265-3760
Benson Transfer Station	2760 Stage Road	Fair Haven	Pam Clapp	(802) 342-5701
Fair Haven Transfer Station	175 Fair Haven Avenue	Fair Haven	Facility Manager	(802) 265-8291
J&L Hardware	4 Field Road	Fairfax	Kyle Magnuson	(802) 849-6402
Duffy's Waste and Recycling	494 Fletcher Road	Fairfax	Joe Trask	(802) 849-2309
Northwest Vermont SWMD	158 Morse Road	Fairfax	Rich Backer	(802) 524-5986
Tool Barn, Inc	2320 US Route 5 North	Fairlee	Dan Perry	(802) 222-9311
NEKWMD Glover Recycling Center	1600 Dry Pond Road	Glover	Marcus Berry	(802) 626-3532
NEKWMD Greensboro Recycling Center	Town Highway 8	Greensboro	Marcus Berry	(802) 626-3532
Poulin Lumber	439 Wolcott Street	Hardwick	Jim Curran	(802) 472-5581
Hinesburg Drop-Off Center	907 Beecher Hill Road	Hinesburg	Facility Manager	(802) 482-4840
NEKWMD Holland Recycling Center	3157 Valley Road	Holland	Marcus Berry	(802) 626-3532
Casella Waste Hyde Park Transfer Station	1855 VT 100	Hyde Park	Janice Vogini	(802) 851-6603
Lanpher Memorial Library	141 E Main Street	Hyde Park	Head Librarian \	(802) 888-7317
ReSOURCE Household Goods	590 E Main Street	Hyde Park	Pamela McKenna	(802) 851-8333
NEKWMD Albany/Irasburg Depot	161 Route 58 East	Irasburg	Marcus Berry	(802) 626-3532
Gervais Ace Hardware	62 Cross Street	Island Pond	Jean Gervais	(802) 723-6138
NEKWMD Brighton Recycling Center	621 Railroad Street	Island Pond	Marcus Berry	(802) 626-3532
Cambridge Elementary School	186 School Street	Jeffersonville	Mary Fiedler	(802) 644-8821
Jerihill Ace Hardware	249 VT Route 15	Jericho	Store Manager	(802) 899-1277
Northern EMS	62 Wilson Road	Johnson	Jeff Johansen	(802) 635-3600
Johnson Hardware & Rental	1442 VT Route 15 West	Johnson	Alan Lehouiller	(802) 635-7282
Johnson Transfer Station	Wilson Road	Johnson	James Gonyaw	(802) 253-9503
Basin Ski Shop	2886 Killington Road	Killington	Ray Garrett	(802) 422-3234

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Participating Collection Site	Address	City / Town	Contact	Main Phone
Londonderry Transfer Station	7060 Route 100	Londonderry	Facility Manager	(802) 824-5506
Londonderry Hardware	5700 VT Route 100	Londonderry	Store Manager	(802) 824-3926
NEKWMD Cabot Recycling Center	153 Sawmill Road	Lower Cabot	Marcus Berry	(802) 626-3532
NEKWMD - Waterford Recycling Center	Duck Pond Road	Lower Waterford	Marcus Berry	(802) 626-3532
Ludlow Transfer Station-Town Offices	37 Depot Street	Ludlow	Patty Potter	(802) 228-2846
Ludlow Transfer Station	336 Route 100 South	Ludlow	Facility Manager	(802) 228-2846
NEKWMD Lunenburg Recycling Center	Transfer Station Road	Lunenburg	Marcus Berry	(802) 626-3532
Rite Aid	412 Broad Street	Lyndonville	Jeff Newbegin	(802) 626-4366
Lyndonville Hardware	583 Broad Street	Lyndonville	Bradley Gebbie	(802) 626-5461
Northeast Kingdom Waste Management District	224 Church St	Lyndonville	Marcus Berry	(802) 626-3532
NEKWMD - Wheelock Recycling Center	Route 122	Lyndonville	Marcus Berry	(802) 626-3532
R.K. Miles, Inc	618 Depot Street	Manchester Center	Zack Dupuis	(802) 362-1952
Good Point Recycling	227 Pond Lane	Middlebury	Robin Ingenthron	(802) 382-8500
R.K. Miles, Inc	88 Exchange Street	Middlebury	Albert Hobbs	(802) 385-1135
Addison County Solid Waste District	1223 Route 7 South	Middlebury	Donald Maglienti	(802) 388-2333
Middletown Springs Trans	10 Park Avenue	Middletown Springs	Pam Clapp	(802) 342-5701
Milton Elementary School	42 Herrick Avenue	Milton	Brooke Gannon	(802) 893-5501
Milton Ace Hardware	5 Southerberry Drive	Milton	Walt Timmons	(802) 893-4100
Milton Drop-Off Center	36 Landfill Road	Milton	Facility Manager	(802) 893-6551
NWSWD - Montgomery	86 Mountain Road	Montgomery Center	Fire Station	(802) 524-5986
Casella Waste Management Depot	408 E Montpelier Road	Montpelier	Jeannie Judkins	(802) 224-0124
Main Street Middle School	170 Main Street	Montpelier	Amy Kimball	(802) 223-3404
VT Agency of Natural Resources	1 National Life Drive - Davis 1	Montpelier	Mia Roethlein	(802) 522-5926
Hunger Mountain Co-op	623 Stone Cutters Way	Montpelier	Sonia Keene	(802) 223-8000
Vermont Department of Public Safety	409 US Route 2	Montpelier	Peter Oparowski	(802) 229-0882
NLS/BPH	578 Paine Turnpike	Montpelier	Wendy Clark	(802) 828-3273
NEKWMD Morgan Recycling Center	285 Hatton Heights	Morgan	Marcus Berry	(802) 626-3532
Needham Electric Supply	106 Goodell Ave	Morrisville	David Murphy	(802) 888-7400
Aubuchon Hardware	925 Brooklyn St	Morrisville	Troy Richard	(802) 888-2800

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Participating Collection Site	Address	City / Town	Contact	Main Phone
The Manor	577 Washington Highway	Morrisville	Kathy Chaffee	(802) 888-8700
Lamoille Regional SWMD	29 Sunset Drive Suite 5	Morrisville	James Gonyaw	(802) 888-7317
Country Home Center	85 Center Road	Morrisville	Lee Sturevant	(802) 888-3177
Wards Systems Inc.	65 Northgate Plaza	Morrisville	Store Manager	(802) 888-4163
Morrisville Transfer Station	Trombley Hill Road	Morrisville	James Gonyaw	(802) 253-9503
Town of Newbury	4982 Main Street North	Newbury	Claude Phipps	(802) 866-9008
North Country Hospital	189 Prouty Drive	Newport	Denise Mason	802-334-3210
The Pick and Shovel	54 Coventry Street	Newport	Manager - Greg	(802) 334-8370
Casella Coventry Landfill/CWM Transportation, Inc.	21 Landfill Lane	Newport	Trish Geoffroy	(802) 334-8300
NEKWMD Newport Town Recycling	Route 105, Old Town Garage	Newport Town	Marcus Berry	(802) 626-3532
NWSWD - North Hero	362 W Shore Road	North Hero	Marcus Berry	(802) 524-5986
NEKWMD Jay Recycling Center	1375 Cross Road	North Troy	Marcus Berry	(802) 626-3532
Kenyons Hardware & Farm Supply	93 North Main Street	Northfield	Kristy Kenyon	(802) 485-9676
NEKWMD Norton Recycling Center	249 VT Route 114 South	Norton	Marcus Berry	(802) 626-3532
Norwich Transfer Station	24 New Boston Road	Norwich	Bill Sanborn	(802) 295-2660
Weathersfield Transfer Stations	483 Stoughton Pond Road	Perkinsville	Tyler Waters	(802) 263-5651
Pittsford Town Offices	426 Plains Road	Pittsford	John Haverstock	(802) 483-6500
Pownal Transfer Station	467 Center Street	Pownal	Tom Shuey	(802) 379-1470
Rite Aid	12 North Main Street	Randolph	Sarah Perrin	(802) 728-3722
Richmond Elementary	125 School Street	Richmond	Jed Carini	(802) 434-2461
Richmond Drop-Off Center	80 Rogers Lane	Richmond	Facility Manager	(802) 434-2712
Rite Aid	7 West Street	Rutland	Store Manager	(802) 775-0131
Rutland City DPW	130 Spruce Street	Rutland	Dave Sears	(802) 773-1855
Rutland County Solid Waste District HHW Depot	14 Gleason Road	Rutland	Jim O'Gorman	(802) 773-9231
Walmart - WM	1 Rutland Shopping Plaza	Rutland	Claims Dept.	(802) 773-0200
Interstate All Battery Center	71 River Street	Rutland	Store Manager	(802) 786-9075
Rutland County SWD	2 Green Hill Lane	Rutland	John Wazaluski	(802) 775-7209
UPS	125 Park Street	Rutland	Donna Gravelle	(802) 775-5224
The Home Depot	299 US Route 4 East	Rutland	Operations ASM	(802) 786-6900
Rutland Town Transfer Station	Post Road Extension	Rutland	Pam Clapp	(802) 747-9013
Walmart - WM	700 Tuckers Way	Saint Albans	Claims Dept	(802) 528-4110
Kinney Drugs Inc	164 Swanton Road	Saint Albans	Scott Richards	(802) 524-6543
Northwestern Medical Center	133 Fairfield Street	Saint Albans	Rob Prim	(802) 524-8464
NWSWD - St. Albans City Recycling Center	83 Rewes Drive	Saint Albans	Marcus Berry	(802) 524-5986
Armstrong Better Hearing	198 Eastern Avenue	Saint Johnsbury	Diane Larose	(802) 748-4852
UPS	1028 Industrial Parkway	Saint Johnsbury	Lisa Charles	(802) 748-9911

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Participating Collection Site	Address	City / Town	Contact	Main Phone
NEKWMD Barnet Recycling Center	End of Town Highway 14	Saint Johnsbury	Marcus Berry	(802) 626-3532
Rite Aid	30 Shelburne Shopping Park	Shelburne	Joya Lawyer	(802) 985-2610
Aubuchon Hardware	50 Shelburne Shopping Park	Shelburne	Scott Law	(802) 985-3349
Reynolds and Son Inc.	47 Bridge Street	South Barre	Bruce Sanborn	(802) 479-0101
Aubuchon Hardware	47 Hinesburg Road	South Burlington	Alan Hawkins	(802) 658-4900
Lowe's	189 Hannaford Drive	South Burlington	Brian Donnelly	(802) 318-9052
Vermont Air National Guard	30 Falcon Street	South Burlington	Peter Dufault	(802) 660-5926
Staples	861 Williston Road	South Burlington	Store Manager	(802) 862-2199
Verizon Wireless	825 Williston Road	South Burlington	Ted Sigmund	(802) 865-3100
The Radio North Group	12 Gregory Drive Suite 4	South Burlington	Danielle Pheeny	(802) 865-0090
Russell Supply	9 Gregory Drive	South Burlington	Store Manager	(802) 863-1177
Chittenden Solid Waste District	1011 Airport Parkway	South Burlington	Gary Winnie	(802) 865-4663
South Burlington Drop-Off Center	87 Landfill Road	South Burlington	Facility Manager	(802) 865-6221
Londonderry Solid Waste Group	100 Old School Street	South Londonderry	Esther Fishman	(802) 824-3356
Sigda Hardware	2046 VT Route 100	South Londonderry	Store Manager	(802) 824-5930
South Royalton School	223 S Windsor Street	South Royalton	Ray Ballou	(802) 763-7740
Bethel Royalton Transfer Station	122 Waterman Rd	South Royalton	Chet Brown	(802) 763-2232
Strafford Recycling Center	159 VT Route 132	South Strafford	Facility Manager	(802) 674-4474
Chester-Springfield Recycling Center	135 Fairground Road	Springfield	Dan Farr	(802) 885-5827
NECC	1270 US Route 5	St Johnsbury	Bryan Mitofsky	(802) 751-1430
Stowe Transfer Station	370 Mountain Road (Dump Road)	Stowe Village	Joyce Majors	(802) 253-9503
Solid Waste Alliance Communities	36 Blacksmith Lane	Sudbury	Pam Clapp	(802) 342-5701
Swanton Rexall Pharmacy	44 Merchants Row	Swanton	Troy and Louise	(802) 868-3338
Thetford Recycling Center	4659 Route 113	Thetford Center	Sally Bugg	(802) 785-2922
Tinmouth Transfer Station	537 Route 140	Tinmouth	Facility Manager	(802) 342-5701
Tinmouth Town Offices	9 Mountain View Road	Tinmouth	Pamela Clapp	(802) 342-5701
Basin Harbor Club	4800 Basin Harbor Road	Vergennes	Brian Goodyear	(802) 475-7803
Vershire Recycling Center	6894 VT Route 113	Vershire	Gene Craft	(802) 685-2227
Casella Waste Earthwise Transfer	6911 Main Street	Waitsfield	Steve Bell	(802) 496-6394

# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

Participating Collection Site	Address	City / Town	Contact	Main Phone
Bisbee's Hardware	109 Mad River Green	Waitsfield	John Wilson	(802) 496-3635
Town of Wardsboro	77 Dump Road	Wardsboro	Mark Ellison	(802) 896-6055
Sugarbush Resort	1840 Sugarbush Access Road	Warren	Melanie Young	(802) 583-6570
Vermont DEC	91 State Drive	Waterbury	David Jennison	(802) 241-6545
SunCommon	442 US Route 2	Waterbury	Maggie Twitchell	(802) 882-8181
State of Vermont, BGS	91 State Drive	Waterbury	Kevin Rodgers	(802) 241-3192
Waterbury True Value Hardware	838 Waterbury Stowe Road	Waterbury	Store Manager	(802) 244-8905
Town of Burke	212 School Street	West Burke	Sam Sanderson	(802) 626-9622
NEKWMD Newark Recycling Center	1358 Newark Street	West Burke	Marcus Berry	(802) 626-3532
Town of Walden	12 VT Route 215	West Danville	Lina Smith	(802) 563-2220
NEKWMD - Westmore Recycling Center	6988 VT Route 5A	Westfield	Marcus Berry	(802) 626-3532
NEKWMD - Westfield Recycling Center	757 VT Route 100	Westfield	Marcus Berry	(802) 626-3532
Rockingham Recycling Center	7446 US Route 5	Westminster	Gary Derosia	(802) 463-9219
Hartford Recycling Center	2590 North Hartland Road	White River Junction	Bob Vahey	(802) 295-5740
VA Medical Center (138)	215 North Main Street	White River Junction	Dorothy Ward	(802) 295-9363
King Arthur Flour	58 Billings Farm Road	Wilder	James Kirkpatrick	(802) 299-1674
ENPRO Services of Vermont Inc.	54 Avenue Drive	Williston	Jeffrey Baker	(802) 923-1941
Ribbon Recyclers	185 Commerce Street	Williston	Jim Young	(802) 660-8960
Hotronic USA Inc.	25 Omega Drive, Suite 130	Williston	Jennifer Bashaw	(802) 862-7403
Best Buy	26 Cypress Street	Williston	Jorge Wolynski	(802) 872-0992
Staples	1375 Maple Tree Place	Williston	Store Manager	(802) 872-0260
The Home Depot	759 Harvest Lane	Williston	Operations ASM	(802) 872-0039
Walmart – WM	863 Harvest Lane	Williston	Claims Dept.	(802) 878-5233
Williston Drop-Off Center	1492 Redmond Road	Williston	Facility Manager	(802) 872-7109
Rite Aid	107 E Main Street	Wilmington	Jennifer Luczynski	(802) 464-7575
Windsor Municipal Building	29 Union Street	Windsor	Town Manager	(802) 674-6786
Timberlane Physical Therapy	321 Main Street, Suite D	Winooski	Corey Vancura	(802) 864-3785
Town of Woodbury	1672 Route 14	Woodbury	Diana Peduzzi	(802) 625-2023
Woodstock Pharmacy	19 Central Street	Woodstock	Sarah	(802) 457-1306
Woodstock Ace Hardware	452 Woodstock Road	Woodstock	Store Manager	(802) 457-3291
Worcester Transfer Station	Calais Road	Worcester	James Gonyaw	(802) 253-9503

# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

## (6) examples and description of educational materials used to increase collection;

In 2017, Call2Recycle, Inc. employed an integrated, multi-channel approach to educate stakeholders and motivate Vermonters to recycle their used batteries. Below, please find an outline of activities conducted by Call2Recycle, Inc.

### Solid Waste District / Alliance Assistance

Call2Recycle, Inc. staff met in-person with several of the State's Solid Waste Management Districts, Alliances & Towns to build upon the success of "year one" of the program. In addition, Call2Recycle, Inc. staff attended four household hazardous waste coordinator's quarterly meetings to update all in attendance on the progress of the program and solicit feedback from participating collection sites.

Call2Recycle, Inc. also leveraged its social media platform to help Districts promote their household hazardous waste collections throughout the Fall of 2018 (Figure 1).

FIGURE 1



Each year, Call2Recycle, Inc. provides "Sustainability Awards" to collection sites throughout the U.S. that have gone the "extra-mile" to collect and recycle batteries through the Call2Recycle program. Three (3) collection sites in Vermont received the Awards in 2017, including Addison County Solid Waste Management District.

**Ongoing Promotional Opportunities** – Call2Recycle, Inc. implemented continued outreach and promotional activities to ensure battery recycling remains top-of-mind for consumers and stakeholders in Vermont. These activities included, but were not limited to the following –

*National Battery Day:* On February 18, 2017, Call2Recycle, Inc. partnered with its collections sites across North America, including Vermont, to promote battery recycling during National Battery Day (Figure 2). A number of sites in Vermont participated, including several national retailers, as well as the Lamoille Regional Solid Waste District and Northwest Vermont Solid Waste Management District.

FIGURE 2



FIGURE 3



*Daylight Saving Time:* In conjunction with the national campaign to encourage homeowners to change out their smoke and carbon monoxide detector batteries and recycle their old ones, Call2Recycle, Inc. coordinated a campaign to encourage Vermonters to recycle those batteries via social media and offered a promotional tool kit for districts and alliances to educate their residents (Figure 3).

# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

*Call2Recycle Newsletters:* All collection sites are recipients of Call2Recycle, Inc's bi-monthly newsletters which highlight battery recycling activities throughout North America.

## Media Activities & Outreach:

### *Two Exterior Bus Ads:*

6 months of exterior bus ads - three in the Spring & three in the Summer (Figure 4).

### *Radio Spots:*

168 radio spots throughout Vermont on Vermont Public Radio.

### *VT Public Radio Mobile & Web Banners:*

6 months of paid ads (February - April and October - December): 124,680 impressions & 706 clicks.

FIGURE 4



## “Year One” Results

In “year one” of the program (2016), Vermonters recycled 114,000 pounds of batteries, a significant milestone worth celebrating! Call2Recycle, Inc. wrote and promoted, both locally and nationally, the “year one” results of the Vermont primary battery stewardship program via press release, e-newsletters and social media. In addition, Call2Recycle staff presented these results at several conferences (i.e., NY State Recycling Conference”: November 2017) and webinars (i.e. PSI Battery Webinar: Feb 2017).

## Dedicated Web Site Landing Page

Call2Recycle, Inc. continues to maintain a Vermont-specific landing page at [www.call2recycle.org/vermont](http://www.call2recycle.org/vermont) which includes promotional and educational materials, as well as the drop-off locator to encourage users to enter their zip code to find the nearest Call2Recycle drop off location. The drop-off locator was used 7,139 times.

## Social Media & Web Site Activity:

### *Twitter Platform (Figure 5)*

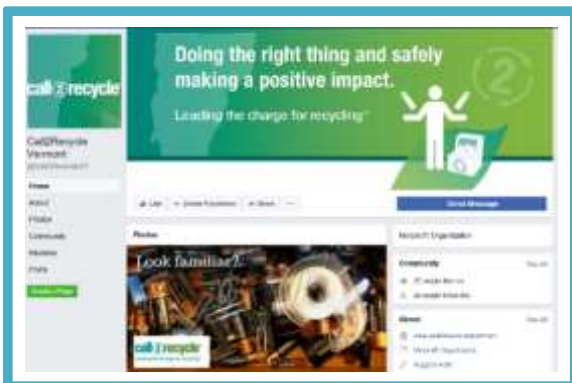
459 Tweets

298 Engagements (likes, retweets, replies, quotes)

FIGURE 5



FIGURE 6



### *Facebook Platform (Figure 6)*

157 Posts

150 Engagements (likes, shares, comments)

# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

## Consumer Survey to Measure Effectiveness:

In the Fall of 2015, Call2Recycle, Inc. conducted a survey in Vermont to benchmark consumer awareness of battery recycling. The survey is conducted each Fall to measure the effectiveness of Call2Recycle, Inc’s education and outreach initiatives. Below please find the results of two high-level measures from the surveys for the last three years:

High-Level Consumer Survey Results	Fall 2015	Fall 2016	Fall 2017
Percent of Vermonters that know batteries can be recycled	70%	72%	68%
Percent of Vermonters that have recycled batteries in past 12 months	42%	56%	53%

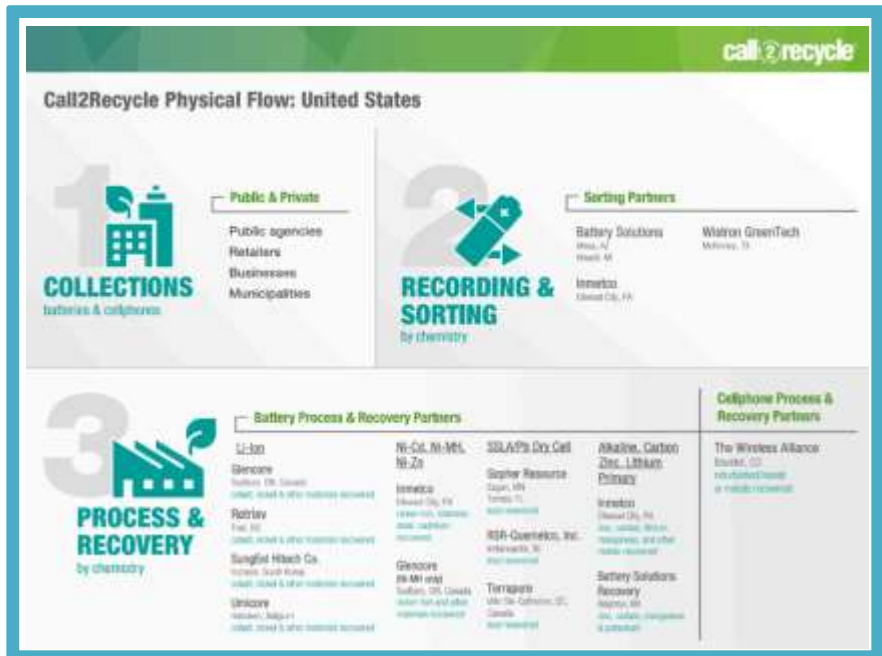
In 2017, we saw a slight decrease in each of the high-level measures compared to 2016. Although these results are not dramatically down, they did shift enough for Call2Recycle to take notice and take additional measures to address in 2018. As part of the efforts, Call2Recycle is re-examining some of its approaches to ultimately persuade Vermonters to take-action and recycle their batteries. As these results were disappointing, the ultimate goal of diverting more batteries from landfill through recycling was achieved. The executive summary of the survey can be found in Appendix 1 and the full report will be made available to the Agency upon request.

## (7) the manner in which the collected primary batteries were managed

Spent batteries were collected for recycling through an established network of sites throughout Vermont. Once collected and packaged for shipment, these batteries were shipped directly to Battery Solutions Recovery, LLC.

Shipments of spent batteries are recorded by site, sorted by chemistry, consolidated into truckload shipments and sent to Call2Recycle’s qualified processing network. Below please find the physical flow (Figure 7) of where each type of battery chemistry collected by Call2Recycle is sent for proper recycling:

FIGURE 7





# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

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In 2017, both Inmetco and Battery Solutions Recovery, LLC processed primary batteries collected in Vermont - Further information about each service provider is detailed below:

*Battery Solutions Recovery, LLC:* Non-lithium primary batteries are processed using a room temperature, mechanical separation process where the battery components are separated into three end products - 1) zinc & manganese concentrate; 2) steel; and 3) paper, plastic & brass functions. These three end products are marketed and sold by Battery Solutions Recovery, LLC to manufacturers to be used as feedstock to make new materials. Most notably, the Zinc and Manganese concentrate, is combined with other materials to ultimately manufacture a granular fertilizer. Battery Solutions Recovery, LLC does not manufacture the final-end product of granular fertilizer.

*Inmetco:* Non-lithium and lithium primary batteries are processed using a rotary hearth and an electric arc furnace for thermal metal reclamation which captures zinc oxide and refines it into a variety of zinc uses, including as an input into the manufacture of alkaline batteries. The lithium primary batteries, along with button and coin cell batteries, are processed and the reclaimed materials are used in road and construction aggregate and stainless steel products.

**(8) any material change to the primary battery stewardship plan approved by the Secretary pursuant to section 7586 of this title; and**

Call2Recycle made no material changes to the primary battery stewardship plan in 2017.

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**(9) the cost of implementation of the primary battery stewardship plan, including the costs of collection, recycling, education, and outreach.**

As noted during the stakeholder review and plan approval process, Call2Recycle, Inc.’s annual audited financial statements are not finalized until early May each year. Below please find the unaudited financial statement specific to the full operation of the primary battery stewardship program:

<b>Call2Recycle, Inc (Vermont Primary Battery Program) Statement of Revenue &amp; Expenses For the For the Year-ended December 31, 2017</b>				
<b>REVENUE</b>	<b>Actual</b>	<b>Budget</b>	<b>Variance</b>	<b>Annual Budget</b>
Stewards Fees	\$165,000	\$160,000	\$5,000	\$160,000
<b>Total revenue</b>	<b>\$165,000</b>	<b>\$160,000</b>	<b>\$5,000</b>	<b>\$160,000</b>
<b>EXPENSE</b>	<b>Actual</b>	<b>Budget</b>	<b>Variance</b>	<b>Annual Budget</b>
Battery Collection	\$78,217	\$48,000	\$(30,217)	\$ 48,000
Primary Battery Processing	\$25,228	\$20,000	\$(5,228)	\$ 20,000
Salary & Benefits	\$39,250	\$48,093	\$8,843	\$48,093
Marketing	\$23,477	\$24,000	\$523	\$24,000
Professional fees	\$1,828	\$16,800	\$14,972	\$16,800
Office Expense	\$839	\$ 936	\$98	\$936
Occupancy	\$1,294	\$901	\$(393)	\$901
Insurance	\$139	\$235	\$96	\$235
Travel, Meals & Lodging	\$ 419	\$533	\$114	\$533
Shared Services	\$(1,580)			
<b>Total expense</b>	<b>169,111</b>	<b>159,498</b>	<b>(11,193)</b>	<b>\$159,498</b>
	<b>Actual</b>	<b>Budget</b>	<b>Variance</b>	<b>Annual Budget</b>
<b>Increase in net assets (operating)</b>	<b>(4,111)</b>	<b>502</b>	<b>(4,613)</b>	<b>\$ 502</b>
<b>Statement of Collections</b>				
	<b>Actual</b>	<b>Budget</b>	<b>Variance</b>	<b>Annual Budget</b>
<b>Primary Collections - lbs.</b>	<b>81,381</b>	<b>68,000</b>	<b>13,381</b>	<b>68,000</b>

Once finalized, an update with the audited data will be sent to the Agency for review (May 2018).

## Additional Information

### Safety Training

The safe handling, transport and disposal of used batteries, specifically lithium-based batteries, is a core tenet of the Call2Recycle® program and is reflected in every aspect of our daily operations. Call2Recycle, Inc. remains committed to the safety of the employees, collection sites, transporters, industry stewards, sorters and processors involved in the used battery collection and recycling process.

To help ensure collection sites receive proper training on how to safely package used batteries for transportation, Call2Recycle, Inc. launched a new campaign called *Charge Up Safety*. As part of this campaign, Call2Recycle developed and launched a safety portal to provide best practices and resources on how to improve recycling safety. In lieu of a general webinar, Vermont collection sites were contacted directly and instructed to take an on-line safety training lesson (Figure 8) which links directly to Call2Recycle’s database to track activity. As a result, 75 participating collection sites were trained in 2017 and we will seek to train the remainder in 2018.

FIGURE 8



FIGURE 9



### Flame Retardant Box Liner Introduced

To advance its commitment to safety, Call2Recycle, Inc. introduced its flame-retardant box liner (figure 9). This innovation offers an additional layer of protection in the prevention of a thermal event during the battery journey – from collection to transportation to sorting and processing. When used in conjunction with Call2Recycle’s program and regulatory terminal protection guidelines, the liner helps prevent flames escaping from the battery box in the event of a thermal runaway. In December, Vermont sites receiving replenishment shipments of boxes began receiving collection boxes with the flame-retardant liner.

### Revamped Packing Guidelines

Call2Recycle, Inc. updated its quick reference guide for packing boxes and bulk shipments (Figure 10).

FIGURE 10



# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

## Producers & Brands Covered by Call2Recycle, Inc.’s Approved Plan

In 2017, thirty-two (32) obligated stewards, representing nearly 100 brands, financed Call2Recycle’s primary battery collection and recycling program in Vermont. Below please find the list of obligated stewards (Table 1) and the brands these stewards are “covering” (Table 2):

**Table 1: Stewards Participating in Call2Recycle, Inc’s Vermont Primary Battery Stewardship Plan**

Ace Hardware Corp.	Energizer Battery Manufacturing, Inc	L’Image Home Products, Inc.	Sony Electronics, Inc.
Advance Stores Company, Inc.	Evergreen (C.P.) USA Inc.	Maxell Corp. of America	Strand Europe Ltd.
Amazon	Family Dollar Stores of Vermont, Inc.	Original Power Inc.	Surefire, LLC
Delhaize America	General Wireless Operations, Inc.	Panasonic Corporation	SY Kessler Sales, Inc.
Dollar General Corporation	Gibson Innovations USA, Inc.	PLR IP Holdings, LLC	Toys R Us – Delaware, Inc.
Do It Best	GP Batteries International Limited	PowerMax Battery USA	Tractor Supply Company
Dorcy International, Inc.	HD Supply	Rayovac/ Spectrum Brands	True Value Company
Duracell	Interstate Batteries Recycling, LLC	RiteAid	Varta Microbattery Inc

**Table 2: Brands Covered By Call2Recycle, Inc’s Stewards**

ACE	Duracell Ultra Advanced	GP Ultra	Rayovac I-C3
AmazonBasics	Eco Gold	GP Ultra Plus	Rayovac Platinum
American Choice	Ecopack	Home 360	Rayovac Renewal
Audigy	Energizer	Interstate	Rayovac Ultra Cordless
Auditas	Energizer Advanced	JobSmart	Rayovac Ultra Pro
AutoCraft	Energizer Eco Advanced	Kodak	Renata
Beltone	Energizer Industrial	Mastercell	Rite Aid
Connect Hearing	Energizer Max	Maxell	Rite Aid Home
DG Home	Energizer Ultimate	Maxell Gold	Sharper Image
Diehard	Essential Everyday	Maxell Super	Siemens
Do It Best	Eveready	Panasonic	Smart Living
Dorcy	Eveready Gold	Panasonic Evolta	Sony
Dorcy Industrial	Eveready Super Heavy Duty	Panasonic Pro	Sony Acti Force
Duracell	Evergreen	Philips	Sony Cyber-Shot
Duracell Activair	Family Dollar	Polaroid	Sony Cycle Energy
Duracell Coppertop	Fusion	Power Ace	Sony Stamina
<b>Table 2 Continued: Brands Covered By Call2Recycle, Inc’s Stewards</b>			
Duracell Coppertop Ultra Power	GNResound	Power One	Sony Stamina Platinum
Duracell Mallory	Gold Peak	Power Patrol	Sunbeam
Duracell Power Pix	GP	Powermax (AC Delco)	Surefire
Duracell Prismatic	GP Greencell	PowerVolt	Tops (Fresh Direct)
Duracell Procell	GP High Voltage	RadioShack	Toys R Us
Duracell Quantum	GP Super	Rayovac	True Value Max
Duracell Ultra	GP Supercell	Rayovac Hybrid	VARTA
			Workaholic

# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

## Accessibility

To optimize the percentage of the U.S. population that has access to battery and cell phone recycling through its collection site network, Call2Recycle, Inc. has developed a standard for measuring public recycling accessibility, specifically for batteries and cellphones. This accessibility rate measures the percent of a state's population that lives within a 10-mile radius of an available Call2Recycle, Inc. drop off location.

For 2017, Call2Recycle, Inc. set an internal goal of reaching and maintaining a 98% accessibility rate in Vermont. Please see the adjacent map (Figure 11) for specific details.

FIGURE 11



## Customer Service Activity

Call2Recycle, Inc's customer service team handles hundreds of daily inquiries from collection sites and consumers weekly. In 2017, Call2Recycle's customer service team fielded the following inquiries and new site enrollments:

Vermont Activity	2017 Totals
Calls or Service Tickets (web-based, emails, etc...) from VT Collection Sites into Call2Recycle Customer Service	192
New Collection Sites Added	16
Rate of New Sites that Recycled Batteries in 2017	25%
Call2Recycle collection boxes sent to VT collection sites	2,217
Call2Recycle collection boxes returned from VT collection sites	1,149

# VERMONT PRIMARY BATTERY STEWARDSHIP ANNUAL REPORT – 2017

## Appendix – Vermont Consumer Survey (Fall 2017)

Full results will be shared with the Agency upon request.

### Executive Summary: Vermont 2017

#### Key findings

- Residents of Vermont report directionally lower awareness for household battery recycling, and are now throwing them out to a greater degree because they didn't know they could be recycled, or they didn't know where to recycle them. Nonetheless, the proportion of batteries recycled has kept the improvement it saw last year.

#### Single-use batteries

- Close to three in ten (28%) single-use batteries are recycled in Vermont (-1 pt since 2016). Two in ten (19%) single-use batteries are stored (-2 pts), and 49% are thrown away (+6 pts). Some 18% of Vermonters say they recycle *all* of their single-use batteries (-1 pt), while 60% (unchanged) don't recycle *any* of them.

#### Recycling locations

- Among Vermonters who have recycled, recycling depots are the most popular location to do so (53%, -3 pts), followed by the workplace (21%, -4 pts).

#### Females and Millennials

- Women are directionally less aware that household batteries can be recycled and are consequently recycling a significantly lower proportion of them than men.
- Millennials are also recycling a notably lower proportion of batteries than their Baby Boomer counterparts, but are more likely to be storing them for a future recycling trip.

#### Rechargeable batteries

- A quarter (25%) of rechargeable batteries are recycled (-1 pt), 29% are stored (-5 pts) and 23% are thrown out (+4 pts). A majority of Vermonters (67%, -1 pt) say they don't recycle *any* of their rechargeable batteries, while 20% (unchanged) say they recycle *all* of them.

#### Throwing out batteries

- Among those who threw batteries out, 33% (-3 pts) say it's the easy thing to do, 35% (+4 pts) don't know where to go, 33% (+1 pt) didn't know they could be recycled, and 27% lack a convenient location (unchanged).

#### Awareness

- Awareness of household battery recycling in Vermont has declined from 72% last year to 68% in 2017.
- Men express directionally higher awareness levels of household battery recycling than women, particularly for rechargeable batteries.

#### Attitudes

- While recycling is perceived as important, fewer Vermonters are convinced of its convenience. Only 42% agree consumer household battery recycling is convenient, while just half (53%) agree it's easier to just throw something away than to recycle it – an opinion that continues to inch up directionally (+2 pts).

#### Storing batteries

- Half of Vermonters who are storing batteries (49%, -5 pts) say they're saving them for a future recycling trip and 40% (unchanged) say they just don't know what to do with them.

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**call2recycle**<sup>®</sup>  
Leading the charge for recycling.<sup>™</sup>